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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/066,472	01/31/2002	Sara Lynn Leslie	SLA 1128	3534
55428	7590	08/25/2006	EXAMINER	
ROBERT VARITZ 4915 SE 33RD PLACE PORTLAND, OR 97202				HANG, VU B
ART UNIT		PAPER NUMBER		
		2625		

DATE MAILED: 08/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/066,472	LESLIE, SARA LYNN
	Examiner Vu B. Hang	Art Unit 2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 23 June 2006.  
 2a) This action is FINAL.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1,10 and 12-16 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,10 and 12-16 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 31 January 2002 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 03/12/04, 01/31/02.

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

- This office action is responsive to the following communication: a request for continued examination filed on 06/23/2006.
- The amendments to Claims 1 and 10 received on 06/23/2006 have been entered and made of record.
- Claims 2-9, 11 and 17-24 have been cancelled. Claims 1, 10 and 12- 16 are pending.

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/23/2006 has been entered.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 10 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,614,454 B1) in view of Chiarabini et al. (US Patent 5,963,216).

Regarding **Claims 1 and 10**, Livingston discloses user method for setting a computer/printer system which includes a screen-display device (see Fig.3A and Col.1, Line 39-48), comprising:

displaying a pre-printing screen-display preview of a document, which has been sent by the computer to that printer for printing (see Fig.3A (68) and Col.2, Line 7-10);

enabling user selection of selectable printing look and format options relating aesthetic appearance (see Fig.3A, Col.2, Line 7-10 and Col.3, Line 60-67) and protocol (see Col.5, Line 31-33);

enabling user selection of one or more of such options to be included in the print preview request (see Fig.3A, Col.2, Line 7-10 and Col.3, Line 60-67);

generating a collection of print-control data which exactly defines how the document that has been sent to the printer will look when printed, and which will be employed by the printer to print the document (see Fig.1 (20), Col.2, Line 11-18 and Col.6, Line 8-16);

communicating the print-control data collection to the screen-display device (see Fig.1 (14,16,28,30) and Col.3, Line 10-14); and

on the basis of the communicating, displaying on the screen in the screen-display device an exact visual preview of the subject document affected by any selected user options (see Fig.3A and Col.2, Line 7-10).

Livingston fails to expressly disclose requesting a pre-printing screen display preview of a document from the computer connected printer; the user selection of printing look and format relating to spatial and positional page-appearance relationships; and generating in the printer a collection of print-control data which exactly defines how the documents to be printed will look.

Livingston, however, suggested a printer includes a display and the user interface is couples to both the computer and the printer (see Fig.1 (12,14,16) and Col.3, Line 29-33). Chiarabini further discloses the user request for print preview (see Fig.9 (240) and Col.2, Line 46-49); the user selection of printing look and format relating to spatial and positional page-appearance relationships (see Fig.7 (222), Fig.10 (246) and Col.6, Line 60-65); and the communication between the printer driver and the display driver to generate print-control data (see Fig.5 (203,204) and Col.2, Line 22-26).

Livingston and Chiarabini are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art include to the user interface features that would allow for the user to select a printing options relating to spatial and positional page-appearance relationships, and for requesting a print preview of the documents to be printed. The motivation would be to enable the user to set the layout of the document to be printed and giving the user the choice of either reviewing the print preview of the document for necessary corrections or to simply skip the process if the user is confident with how the document will look when printed. It is further obvious to have the user interface at the printer for requesting the print preview and generating a collection of print-control data in the printer. The motivation would be to enable the user to view the print preview of the document to be printed at a multifunction peripheral device and allowing for the user to retrieve the previously stored print control data for customized printings.

Regarding **Claim 12**, Chiarabini further discloses wherein the printer includes an integrated controller and a print engine, the controller functions to receive and interpret such sent document printing instruction, and to generate, and ultimately send to the print engine, the

mentioned print control data collection, and the sent back print-preview data stream is directly derived from the controller-generated data collection (see Fig.5 (202,203,204) and Col.5, Line 38-64).

Regarding **Claim 13**, Livingston and Chiarabini disclose the method of Claims 10 and 12 but fail to expressly disclose the user requesting of storage capture of controller generated data in a data storage device, as well as subsequent user requesting of storage retrieval of any such stored controller generated data. Livingston, however, further discloses the saving/storing and retrieving of the controller-generated data (see Fig.1 (20) and Col.2, Line 11-18).

At the time of the invention, it would have been obvious for one skilled in the art to include the user requesting of storage capture of controller generated data in a data storage device, as well as subsequent user requesting of storage retrieval of any such stored controller generated data. The motivation for doing so would be to enable the user to select from among a plurality of stored controller generated data to carry out the printing process. This would benefit a user who prefers reusing a certain set of controller-generated data for the printing process.

Regarding **Claim 14**, Livingston further discloses the computer structure and the screen-display device together form portions of an integrated computer (see Fig. 1 (14,26,28)).

Claims 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,614,454 B1) in view of Chiarabini et al. (US Patent 5,963,216), and in further view of Hirashima et al. (US Pub. 2002/0016841 A1).

Regarding **Claim 15**, Livingston and Chiarabini disclose the method of Claim 10 but fail to expressly disclose wherein the screen display device and the printer together form portions of

an integrated printer device. Hirashima, however, discloses screen display device incorporated in a printer (see paragraph [0040]).

Livingston, Chiarabini and Hirashima are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art to incorporate a printer and screen display device into one unit (i.e. multifunction peripheral device). The motivation would be eliminating hardware and reducing costs.

Claims 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,614,454 B1) in view of Chiarabini et al. (US Patent 5,963,216), and in further view of Estavillo et al. (US Pub. 2002/0046238 A1), and in further view of Bubie et al. (US Patent 6,453,078 B2).

Regarding **Claim 16**, Livingston discloses the user interface for selecting and viewing printing options (see Fig.3A, Col.2, Line 7-10 and Col.3, Line 60-67). Chiarabini further discloses printing options relating to color formats and resolution (see Col.5, Line 47-64). Livingston and Chiarabini, however fail to disclose instructing the printer to handle related document data at a selected level of data compression or bit depth, and asking that all or some selected portion of a requested print-preview display be presented in thumbnail fashion. Estavillo, however, discloses in association with requesting a print-preview display, instructing the printer to handle related document data in a selected state of data compression and/or bit depth (see paragraph [0057]). Bubie further discloses the display of selected thumbnail images for printing and displaying prior to printing (Fig.3, Fig.4, Fig.5B, Col.2, Line 30-30 and Col.2, Line 48-55).

Livingston, Chiarabini, Estavillo and Bubie are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art include to the user interface the options of selecting the state of data compression or bit depth and displaying the document or images in thumbnail fashion. The motivation would be to provide more printing option selections for enhancing the graphics quality of the final print product.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu B. Hang whose telephone number is (571) 272-0582. The examiner can normally be reached on Monday-Friday, 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached on (571) 272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vu Hang  
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Vu Hang

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PRIMARY EXAMINER